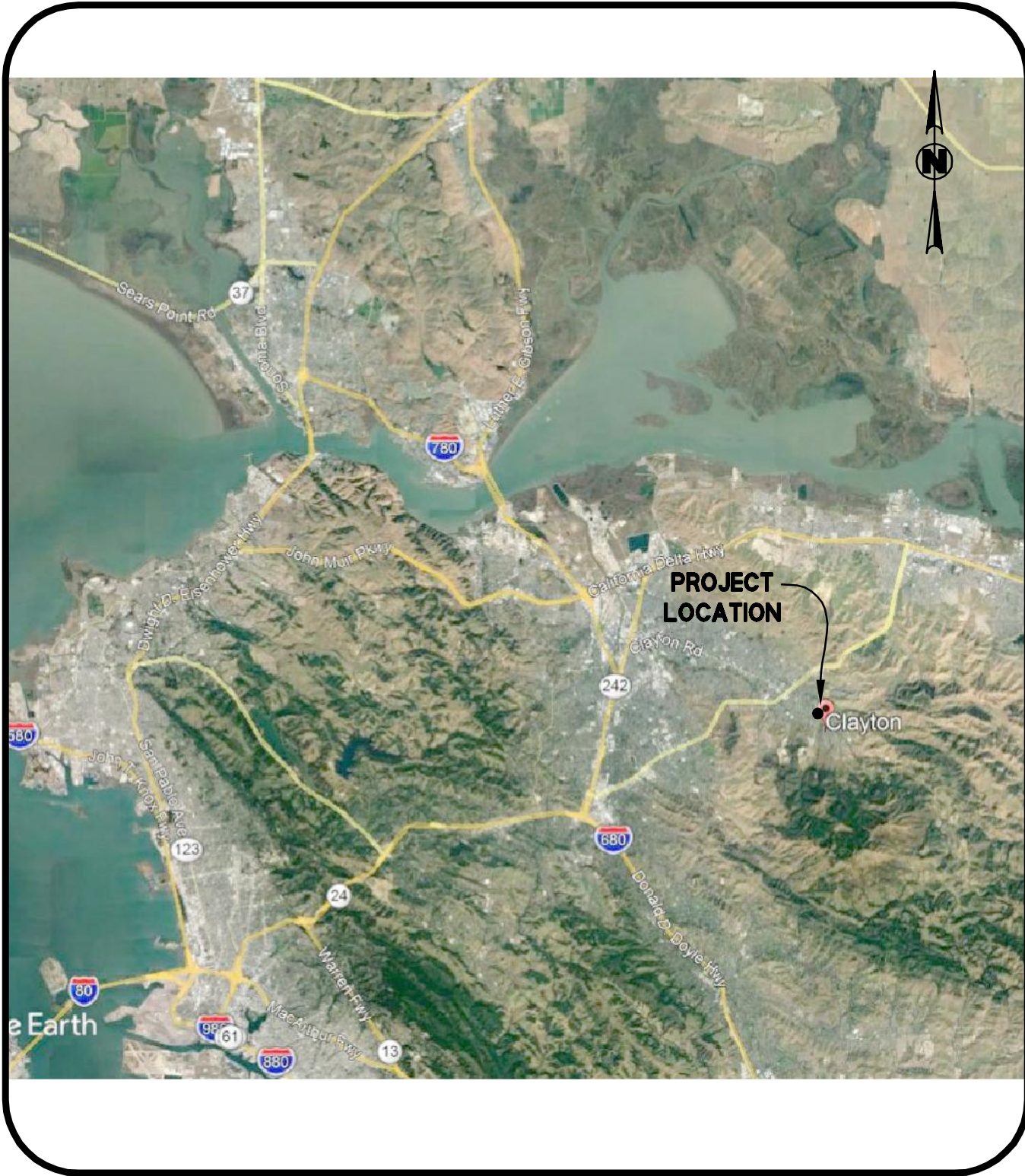


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PLOTTER: HP DesignJet T1100
PLOTTER BY: burn

ABBREVIATIONS

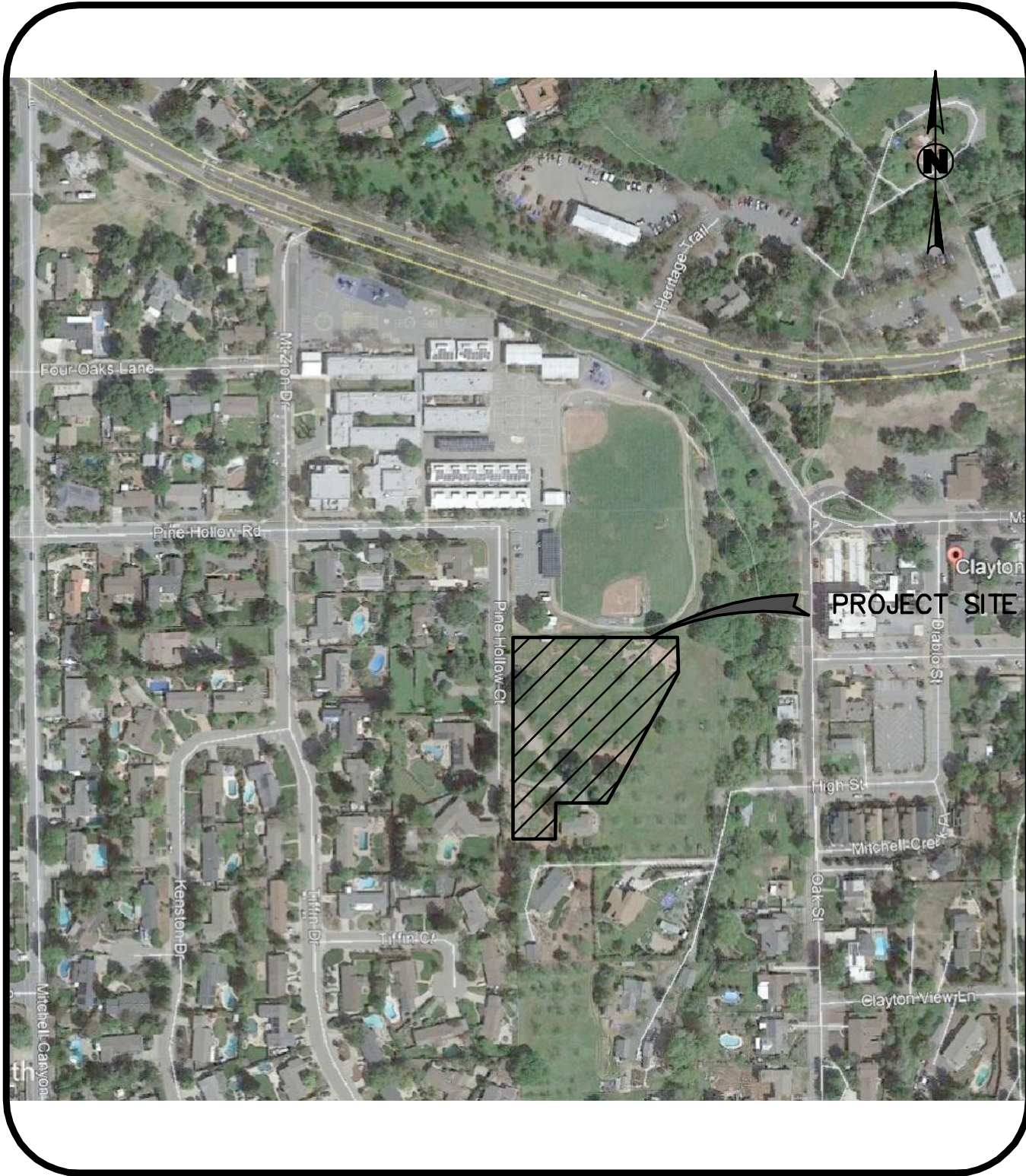
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
AB	AGGREGATE BASE	LG	LIP OF GUTTER
AC	ASPHALT CONCRETE	LP	LOW POINT
AD	AREA DRAIN	LT	LEFT
AGG	AGGREGATE	MAX	MAXIMUM
APPROX	APPROXIMATE	MH	MANHOLE
BC	BEGINNING OF CURVE	MIN	MINIMUM
BLDG	BUILDING	MON	MONUMENT
BM	BENCH MARK	(N)	NORTH / NEW
BO	BLOWOFF	NO., #	NUMBER
BOV	BLOWOFF VALVE	NTS	NOT TO SCALE
BW	BACK OF WALK/ BOTTOM OF WALL	P.A.E.	PUBLIC ACCESS EASEMENT
C&G	CURB & GUTTER	P.C.C.	POINT OF COMPOUND CURVE or PORTLAND CEMENT CONCRETE
CI	CURB INLET	PE	PAV ELEVATION
CL	CENTERLINE	PG&E	PACIFIC GAS AND ELECTRIC
CMP	CORRUGATED METAL PIPE	PL	PROPERTY LINE
CO	CLEANOUT	P.O.C.	POINT OF CONNECTION
CONC	CONCRETE	P.R.C.	POINT OF REVERSE CURVE
DI	DROP INLET	PROP	PROPOSED
DIP	DUCTILE IRON PIPE	P.S.D.E.	PRIVATE STORM DRAIN EASEMENT
DIA	DIAMETER	P.S.E.	PUBLIC SERVICE EASEMENT
DW	DOMESTIC WATER	PT	POINT
D/W	DRIVEWAY	P.U.E.	PUBLIC UTILITY EASEMENT
DWG	DRAWING	PV	PAVEMENT
E	ELECTRIC	PVC	POLYVINYL CHLORIDE
(E)	EAST / EXISTING	R	RADIUS
EC	END OF CURVE	RCP	REINFORCED CONCRETE PIPE
EL	ELEVATION	RCW	RECYCLED WATER
EP	EDGE OF PAVEMENT	RIM	RIM ELEVATION
E.V.A.E.	EMERGENCY VEHICLE ACCESS EASEMENT	RT	RIGHT
		R/W	RIGHT OF WAY
		(S)	SLOPE
EW	EACHWAY	SD	SOUTH
EX	EXISTING	S.D.E.	STORM DRAIN
(F)	FUTURE	S.D.E.	STORM DRAIN EASEMENT
F/C	FACE OF CURB	SDMH	STORM DRAIN MANHOLE
FF	FINISHED FLOOR ELEVATION	SHT.	SHEET
FG	FINISHED GRADE	SS	SANITARY SEWER
FH	FIRE HYDRANT	SSMH	SANITARY SEWER MANHOLE
FL	FLOW LINE	ST	STREET
FM	FORCE MAIN	STA	STATION
FOB	FACE OF BUILDING	STD	STANDARD
FP	FINISHED PAVEMENT	S/W	SIDEWALK
FT	FEET	T OR TELE	TELEPHONE
G	GAS	T&B	TOP AND BOTTOM
GB	GRADE BREAK	TC	TOP OF CURB
GE	GARAGE ELEVATION	TEMP	TEMPORARY
GM	GAS METER	TG	TOP OF GRATE
HP	HIGH POINT	TP	TOP OF PAVEMENT
HV	HIGH VOLTAGE	TYP	TYPICAL
I.E.E.	INGRESS/EGRESS EASEMENT	VERT.	VERTICAL
INV	INVERT	W	WATER
IRR	IRRIGATION	(W)	WEST
JT	JOINT TRENCH	W/	WITH
LAT	LATERAL	WL	WATERLINE
L	LENGTH	WM	WATER METER
LF	LINEAR FEET	WV	WATER VALVE

CLAYTON COMMUNITY CHURCH
1207 PINE HOLLOW COURT
CLAYTON, CONTRA COSTA COUNTY, CA



LOCATION MAP

N.T.S.



VICINITY MAP

N.T.S.

PROJECT INFORMATION

PROPERTY DESCRIPTION:	APN 119-050-036 EXISTING LAND USE: RESIDENTIAL PROPOSED LAND USE: COMMERCIAL AND RESIDENTIAL
OWNER/SUBDIVIDER:	CLAYTON COMMUNITY CHURCH 6055 MAIN STREET CLAYTON, CA 94517
ENGINEER:	BKF ENGINEERS 255 SHORELINE DRIVE, SUITE 200 REDWOOD CITY, CA 94065 (650)482-6300
ACREAGE: EXISTING	4.24 AC
PROPOSED	4.24 AC
STORM DRAIN:	NONE
SEWAGE DISPOSAL:	CITY OF CLAYTON
WATER SUPPLY:	CONTRA COSTA WATER DISTRICT
GAS AND ELECTRIC:	PG&E
TELEPHONE:	AT&T
FLOOD ZONE:	SITE CURRENTLY FALLS WITHIN AREAS IF MINIMAL FLOOD ZONE HAZARD IN ZONE X BASED ON FIRM MAP NUMBER 06013C0304G, EFFECTIVE MARCH 21, 2017.

SHEET INDEX

C-1	TITLE SHEET
C-2	EXISTING SITE CONDITIONS
C-3	GRADING & DRAINAGE PLAN
C-4	STORMWATER CONTROL PLAN
C-5	UTILITY PLAN
C-6	CONSTRUCTION DETAILS
C-7	CONSTRUCTION DETAILS
C-8	CONSTRUCTION DETAILS

GENERAL NOTES

1. EROSION CONTROL PLAN WILL CONFORM TO APPLICABLE CITY, STATE AND FEDERAL STANDARDS.

BENCHMARK

ALL ELEVATIONS SHOWN HEREON ARE BASED ON NAVD88 VERTICAL DATUM EXPRESSED IN US FEET. NGS BENCHMARK PID: DE8492 ELEVATION 412.9.

BASIS OF BEARING

BOUNDARY AND EASEMENTS SHOWN HEREON BASED UPON A PRELIMINARY TITLE REPORT, DATED MAY 24, 2012, FURNISHED BY THE OWNER AND REPRESENTS RECORD LOCATION, SUBJECT TO FINAL BOUNDARY RESOLUTION ADJUSTMENT.

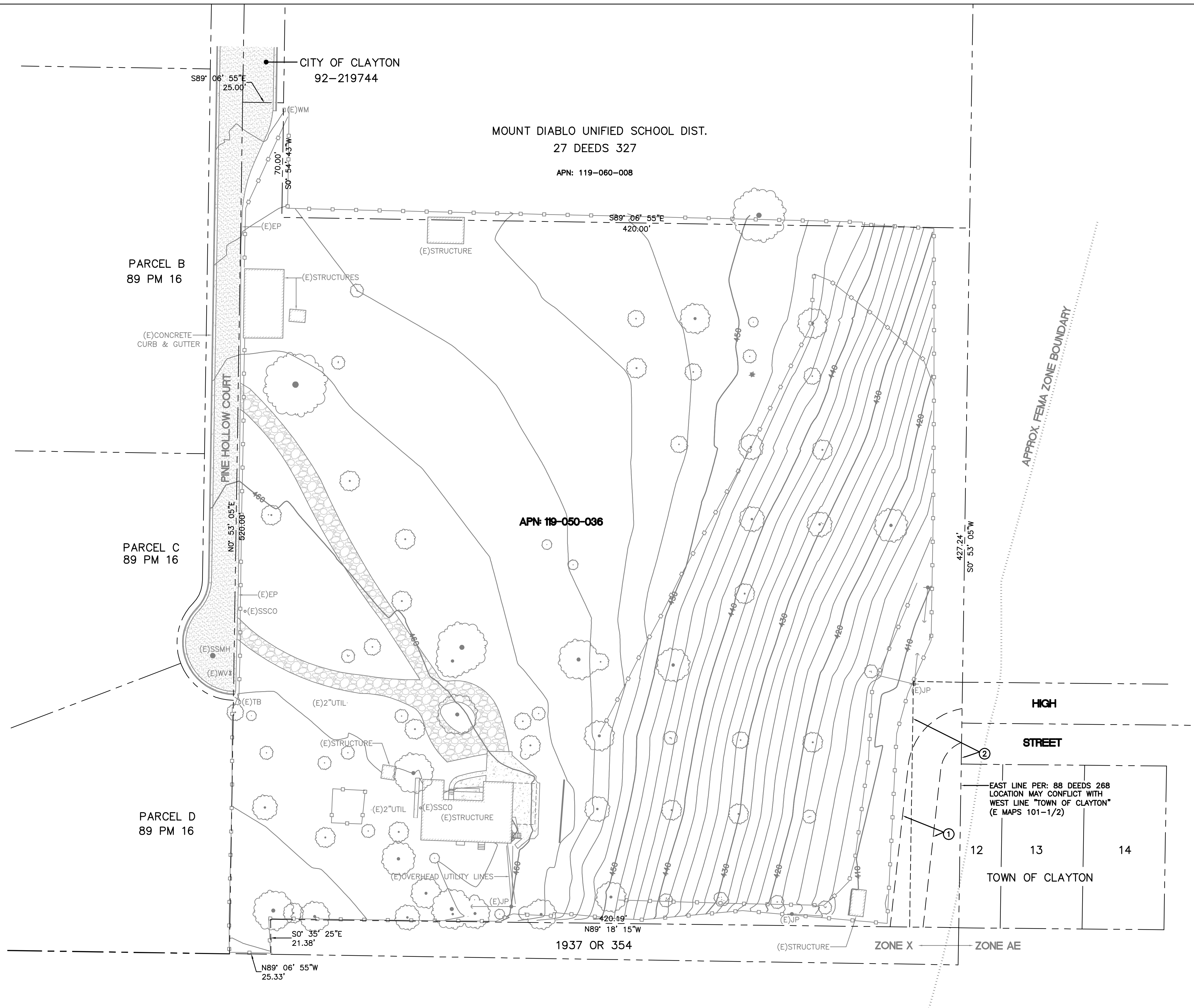
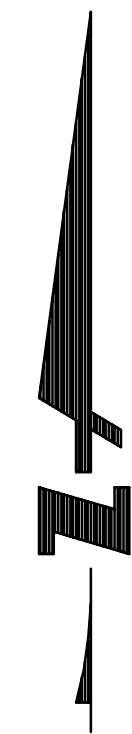
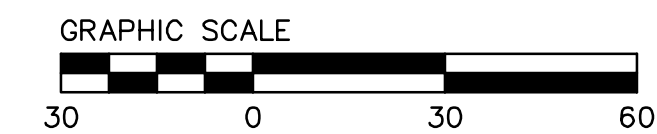
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PLANNING DEPARTMENT SUBMITTAL

1027 PINE HOLLOW CT, CLAYTON
CLAYTON COMMUNITY CHURCH
02.09.2021

TITLE SHEET
C-1
SCALE N/A

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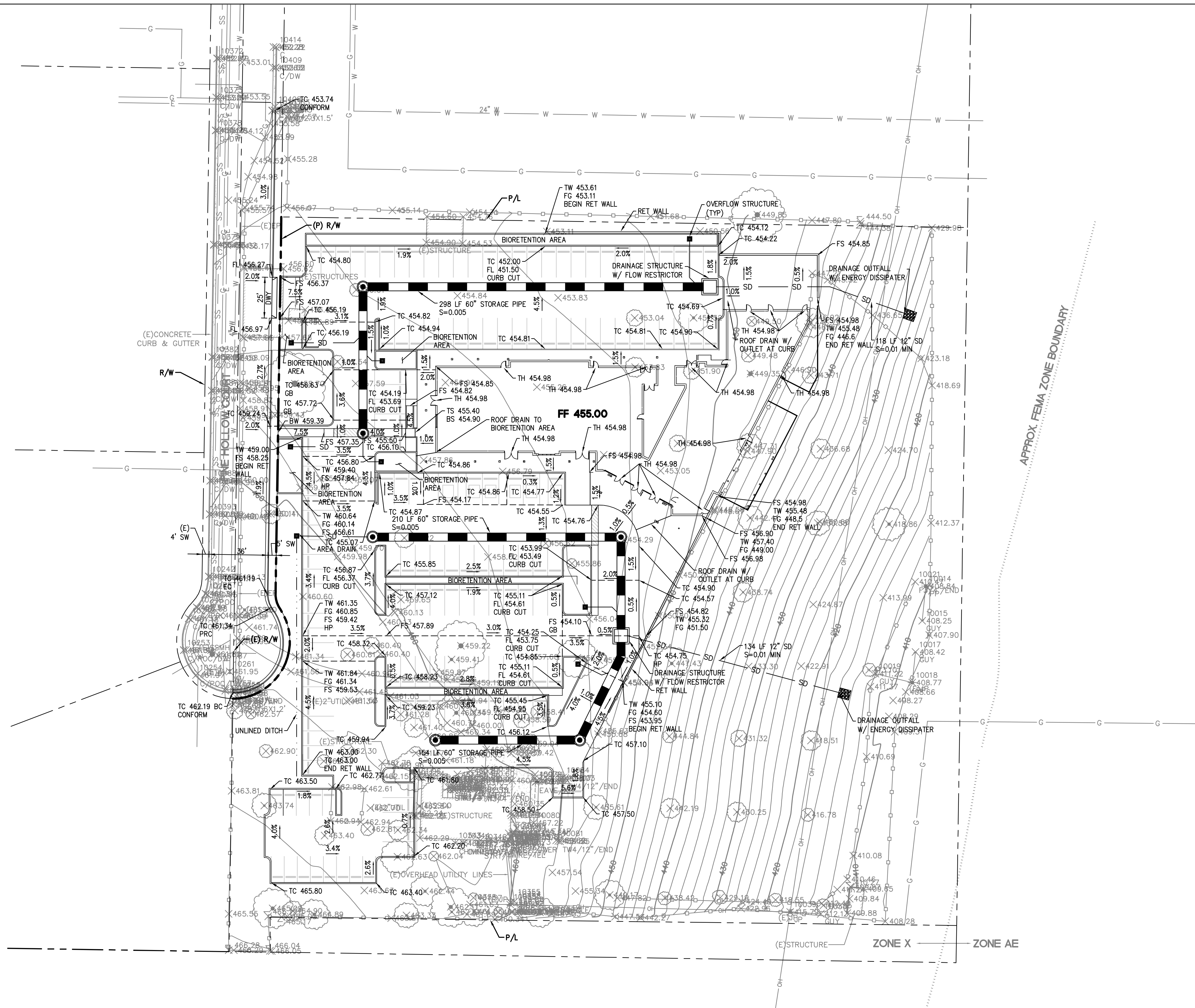
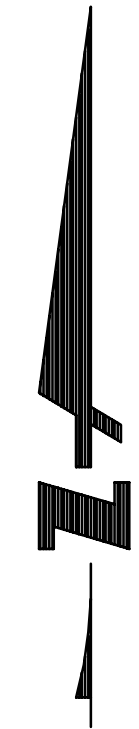
Drawing is only to scale when printed at 24"x36"

PLANNING DEPARTMENT SUBMITTAL

1027 PINE HOLLOW CT, CLAYTON
CLAYTON COMMUNITY CHURCH
02.09.2021

EXISTING SITE CONDITIONS
C-2
SCALE 1"=30'

DRAWING NAME: K:\2019\190264-Clayton-Community-Church\ENG\SHEETS\PLANNING\CC-C3.dwg (190264-Clayton-Community-Church)
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PLANNING DEPARTMENT SUBMITTAL

1027 PINE HOLLOW CT, CLAYTON
CLAYTON COMMUNITY CHURCH
02.09.2021

GRADING AND DRAINAGE PLAN
C-3
SCALE 1"=30'

Project Name: Clayton Community Church
Project Type: Treatment and Flow Control
APN: 119-050-036
Drainage Area: 112,607
Mean Annual Precipitation: 17.5

Self-Treating DMAs

DMA Name	Area (sq ft)
ST1	9,088.0
ST2	1,505.0
ST3	7,731.0
ST4	32.0
ST5	127.0
ST6	40.0

II. Self-Retaining Areas

DMA Name	Area (sq ft)
SR1	176

III. Areas Draining to Self-Retaining Areas

DMA Name	Area (sq ft)	Surface Type	Runoff Factor	Product (Area x Runoff Factor) [A]	Receiving Self-Retaining DMA	Receiving Self-Retaining DMA Area (sq ft) [B]	Ratio [A]/[B]
DMA6	57	Concrete or Asphalt	1.0	57.0	SR1	176	0.32

IV. Areas Draining to IMPs

IMP Name: IMP1

IMP Type: Bioretention + Vault

Soil Group: IMP1

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA1	3,965	Concrete or Asphalt	1.00	3,965	3,965	1.000	159	458
Total				3,965	0.040	1.099	663	0.00
Area Volume				0.040	1.099	159	458	0.00
Maximum Underdrain Flow (cfs)				0.152	1.099	159	458	0.31
Orifice Diameter (in)				0.152	1.099	159	458	0.31

IMP Name: IMP2

IMP Type: Bioretention + Vault

Soil Group: IMP2

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA2	1,816	Concrete or Asphalt	1.00	1,816	1,816	1.000	73	204
Total				1,816	0.040	1.099	303	304
Area Volume				0.040	1.099	303	304	0.00
Maximum Underdrain Flow (cfs)				0.152	1.099	303	304	0.21
Orifice Diameter (in)				0.152	1.099	303	304	0.21

IMP Name: IMP3

IMP Type: Bioretention + Vault

Soil Group: IMP3

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA3A	4,645	Concrete or Asphalt	1.00	4,645	4,645	1.000	190	262
DMA3B	216	Landscape	0.50	108	108	1.099	794	850
Total				4,753	0.040	1.099	190	262
Area Volume				0.152	1.099	190	262	0.01
Maximum Underdrain Flow (cfs)				0.152	1.099	190	262	0.35
Orifice Diameter (in)				0.152	1.099	190	262	0.35

IMP Name: IMP4

IMP Type: Bioretention + Vault

Soil Group: IMP4

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA4A	2,382	Conventional Roof	1.00	2,382	2,382	1.000	95	328
Total				2,382	0.040	1.099	398	483
Area Volume				0.152	1.099	398	483	0.00
Maximum Underdrain Flow (cfs)				0.152	1.099	398	483	0.24
Orifice Diameter (in)				0.152	1.099	398	483	0.24

IMP Name: IMP5

IMP Type: Bioretention + Vault

Soil Group: IMP5

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA5A	20,475	Concrete or Asphalt	1.00	20,475	20,475	1.000	1,119	1,672
DMA5B	7,495	Conventional Roof	1.00	7,495	7,495	1.099	4,672	4,673
Total				27,970	0.040	1.099	1,119	1,672
Area Volume				0.152	1.099	1,119	1,672	0.03
Maximum Underdrain Flow (cfs)				0.152	1.099	1,119	1,672	0.83
Orifice Diameter (in)				0.152	1.099	1,119	1,672	0.83

IMP Name: IMP6

IMP Type: Bioretention + Vault

Soil Group: IMP6

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA6A	22,972	Concrete or Asphalt	1.00	22,972	22,972	1.000	1,108	1,318
DMA6B	4,732	Conventional Roof	1.00	4,732	4,732	1.099	4,625	4,645
Total				27,704	0.040	1.099	1,108	1,318
Area Volume				0.152	1.099	1,108	1,318	0.03
Maximum Underdrain Flow (cfs)				0.152	1.099	1,108	1,318	0.83
Orifice Diameter (in)				0.152	1.099	1,108	1,318	0.83

IMP Name: IMP7

IMP Type: Bioretention + Vault

Soil Group: IMP7

DMA Name	Area (sq ft)	Post Project Surface Type	DMA Runoff Factor	DMA Area x Runoff Factor	IMP Sizing IMP Sizing Factor	Rain Adjustment Factor	Minimum Area or Volume	Proposed Area or Volume
DMA7	20,487	Concrete or Asphalt	1.00	20,487	20,487	1.000	815	1,008
Total				20,487	0.040	1.099	815	1,008
Area Volume				0.152	1.099	815	1,008	0.02
Maximum Underdrain Flow (cfs)				0.152	1.099	815	1,008	0.71
Orifice Diameter (in)				0.152	1.099	815	1,008	0.71

Report generated on 2/8/2021 12:00:00 AM by the Contra Costa Clean Water Program IMP Sizing Tool software (version 1.3.1.0).

PLANNING DEPARTMENT SUBMITTAL

1027 PINE HOLLOW CT, CLAYTON
CLAYTON COMMUNITY CHURCH
02.09.2021

STORMWATER CONTROL PLAN
C-4
SCALE 1"=30'

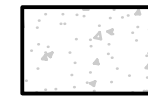
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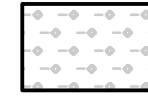
AT-GRADE LINED
FLOW-THROUGH
PLANTER (FP)



ROOF



CONCRETE/ASPHALT



PLANTERS ON GRADE



UNCAPTURED



WATERHSED BOUNDARY



DMA SUB BOUNDARY



PIPE W/ FLOW DIRECTION



SLOTTED UNDERDRAIN



SURFACE FLOW ARROW



ROOF DRAIN



OVERFLOW DRAIN (UNLESS OTHERWISE NOTED)



CLEANOUT



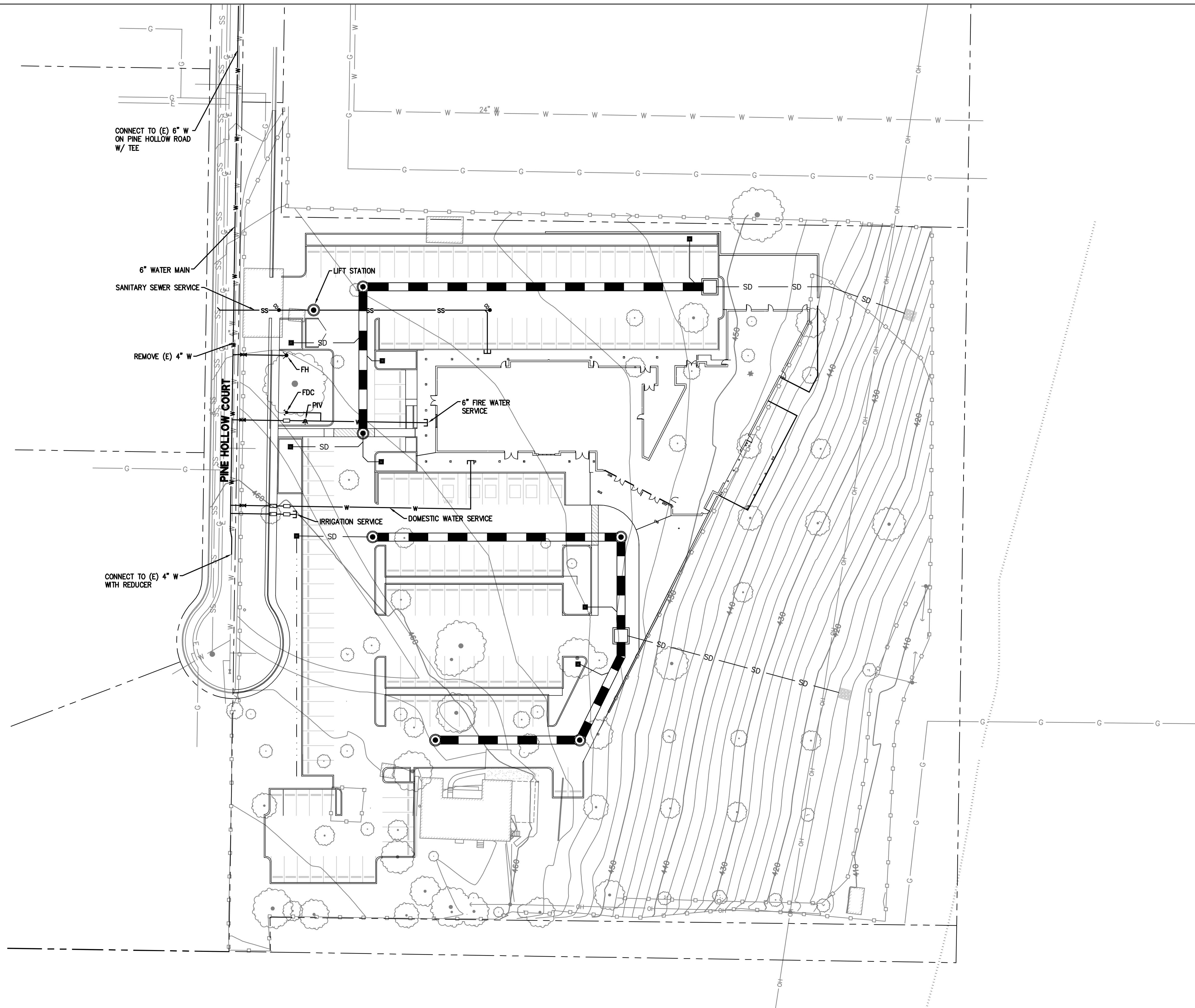
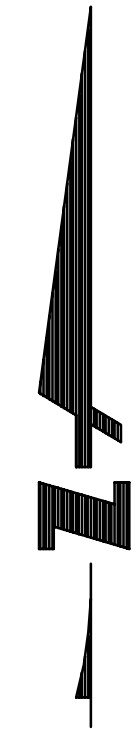
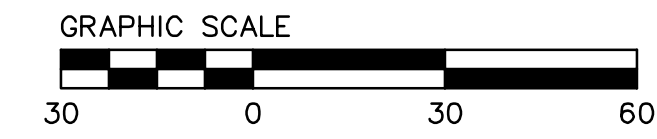
STORM STORAGE PIPE

GRAPHIC SCALE



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FILE: SEP 05, 2008 12:57 P. 8-B 5-8 2: CLAYTON STANDARDS (DMS) 2008 UPDATES (S)-5-8 Curb Gutter and Sidewalk

CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
APPROVED: [Signature] CITY ENGINEER

CURB, GUTTER AND SIDEWALK		SHEET 1 OF 1
DATE: AUGUST, 2008 SCALE: NONE		PAGE S-8
APPROVED: [Signature] CITY ENGINEER		

CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
APPROVED: [Signature] CITY ENGINEER

CATCH BASIN TYPE "B"		SHEET 1 OF 2
DATE: AUGUST, 2008 SCALE: NONE		PAGE D-7
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CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
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CATCH BASIN TYPE "B"		SHEET 2 OF 2
DATE: AUGUST, 2008 SCALE: NONE		PAGE D-7
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CITY OF CLAYTON
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TRENCH BACKFILL AND RESURFACING		SHEET 1 OF 2
DATE: AUGUST, 2008 SCALE: NONE		PAGE S-16
APPROVED: [Signature] CITY ENGINEER		

CITY OF CLAYTON
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TRENCH BACKFILL AND RESURFACING		SHEET 2 OF 2
DATE: AUGUST, 2008 SCALE: NONE		PAGE S-16
APPROVED: [Signature] CITY ENGINEER		

CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
APPROVED: [Signature] CITY ENGINEER

TYPICAL FIRE HYDRANT INSTALLATION		SHEET 1 OF 1
DATE: 8/30/10		REV. 5
APPROVED: [Signature] CITY ENGINEER		

CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
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5/8" TO 2" METER INSTALLATIONS W/ RPBPD		SHEET 2 OF 2
DATE: 8/30/10		REV. 0
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CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
APPROVED: [Signature] CITY ENGINEER

3" TO 6" SERVICE W/ COMPOUND METER AND RPBPD		SHEET 2 OF 2
DATE: 8/30/10		REV. 0
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CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
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4" TO 10" FIRE SERVICE W/ RPDA OR OCDA		SHEET 1 OF 1
DATE: 2/12/14		REV. 2
APPROVED: [Signature] CITY ENGINEER		

CITY OF CLAYTON
DATE: AUGUST, 2008 SCALE: NONE
APPROVED: [Signature] CITY ENGINEER

SCHEMATIC BUILDING FIRE SERVICE DETAIL		SHEET 1 OF 1
DATE: 2/12/14		REV. 2
APPROVED: [Signature] CITY ENGINEER		

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PLANNING DEPARTMENT SUBMITTAL

1027 PINE HOLLOW CT, CLAYTON
CLAYTON COMMUNITY CHURCH
02.09.2021

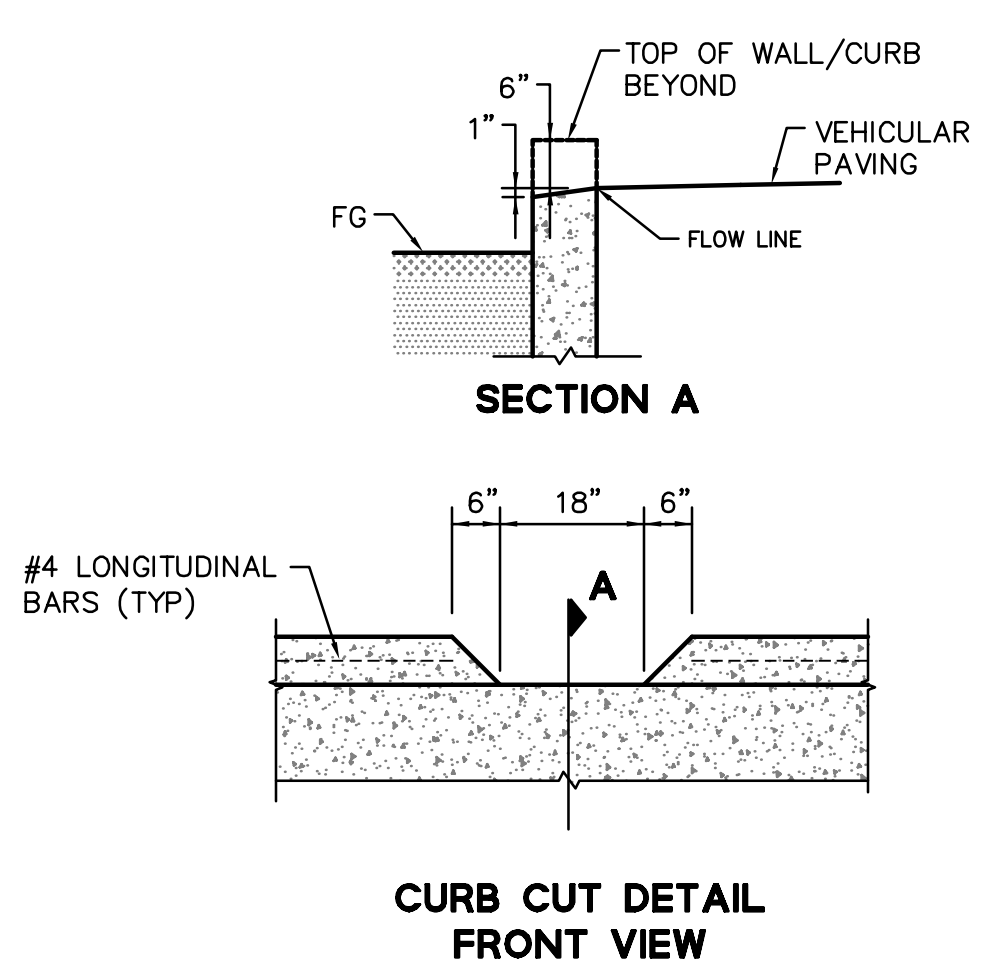
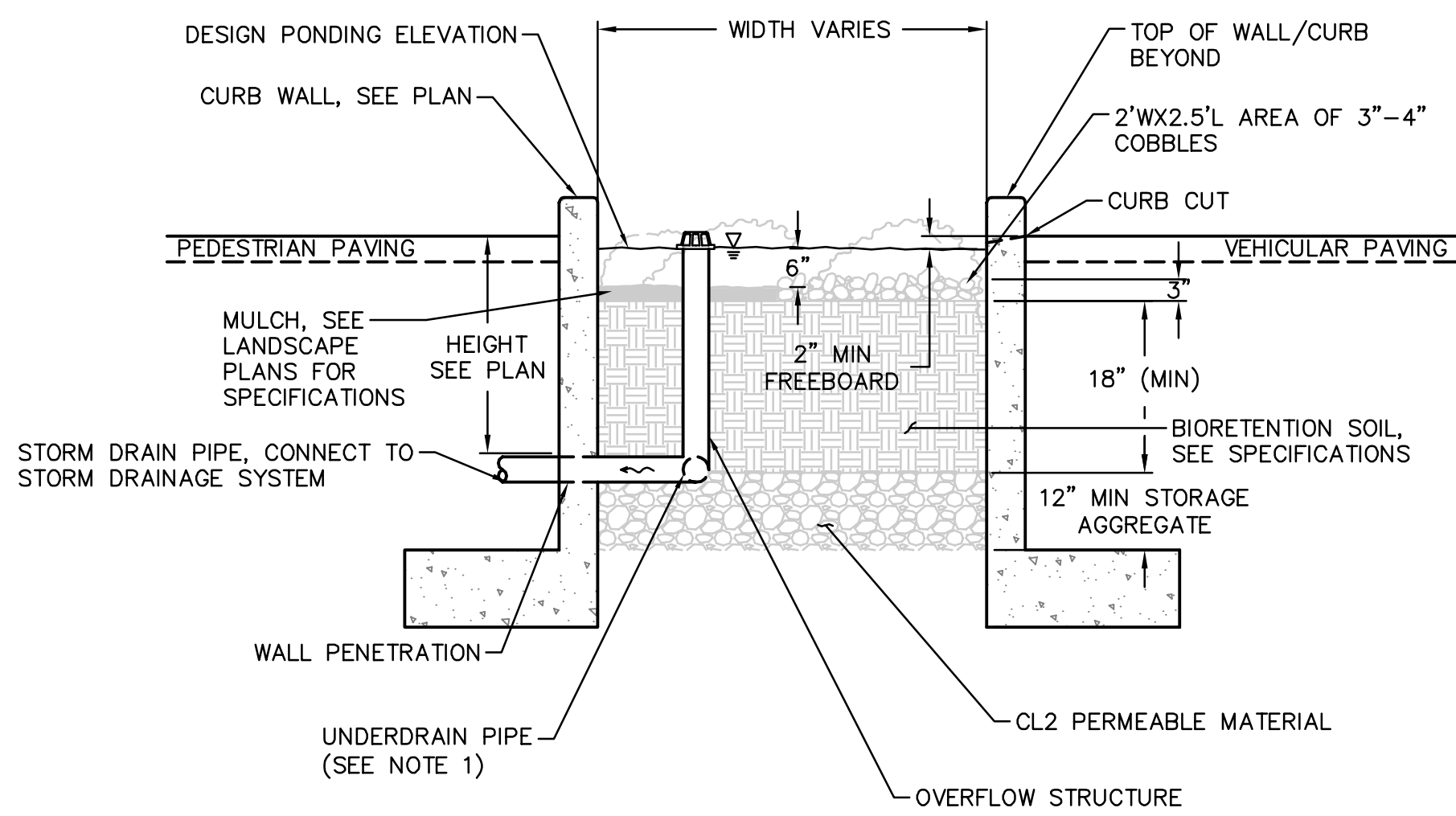
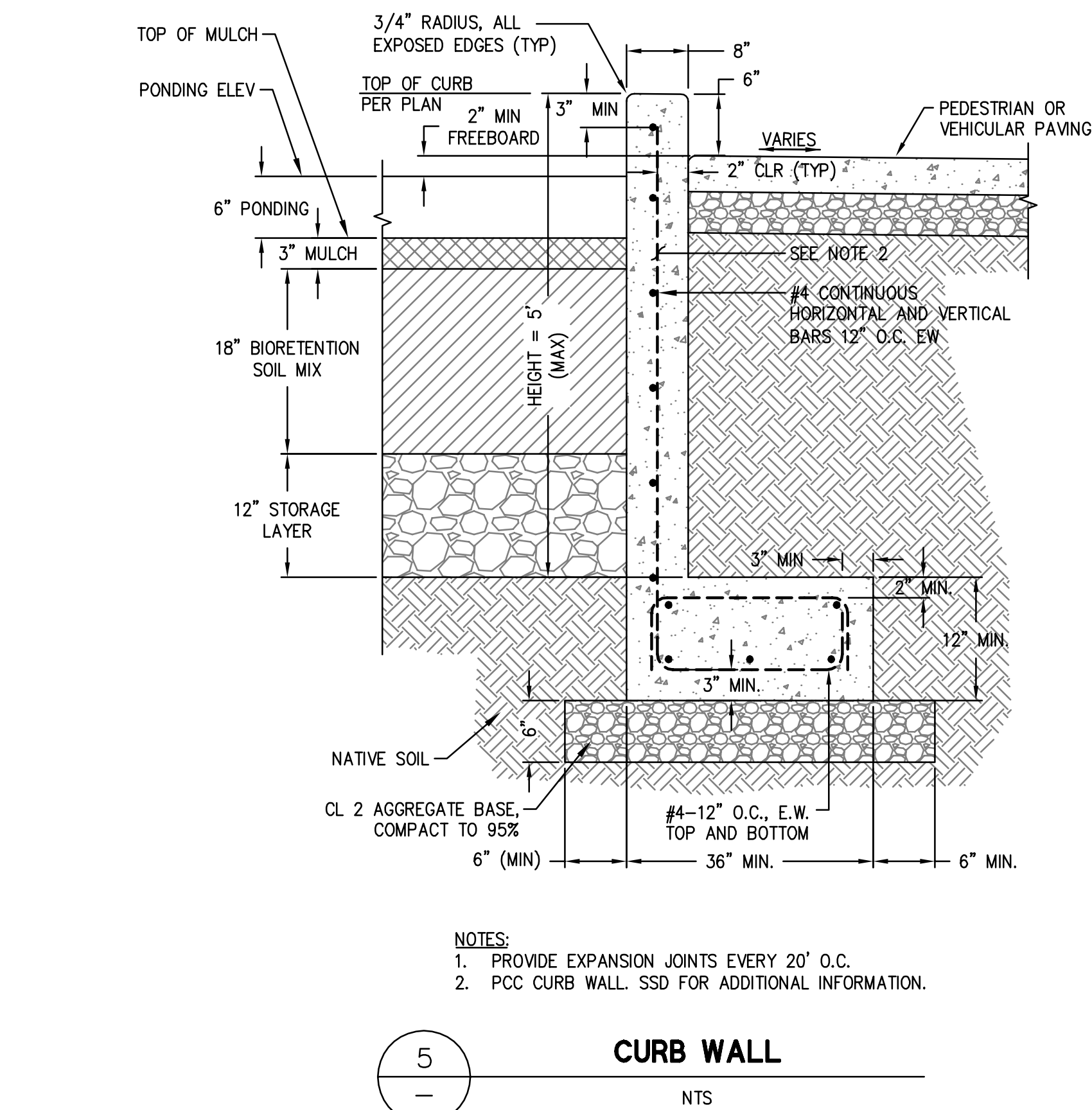
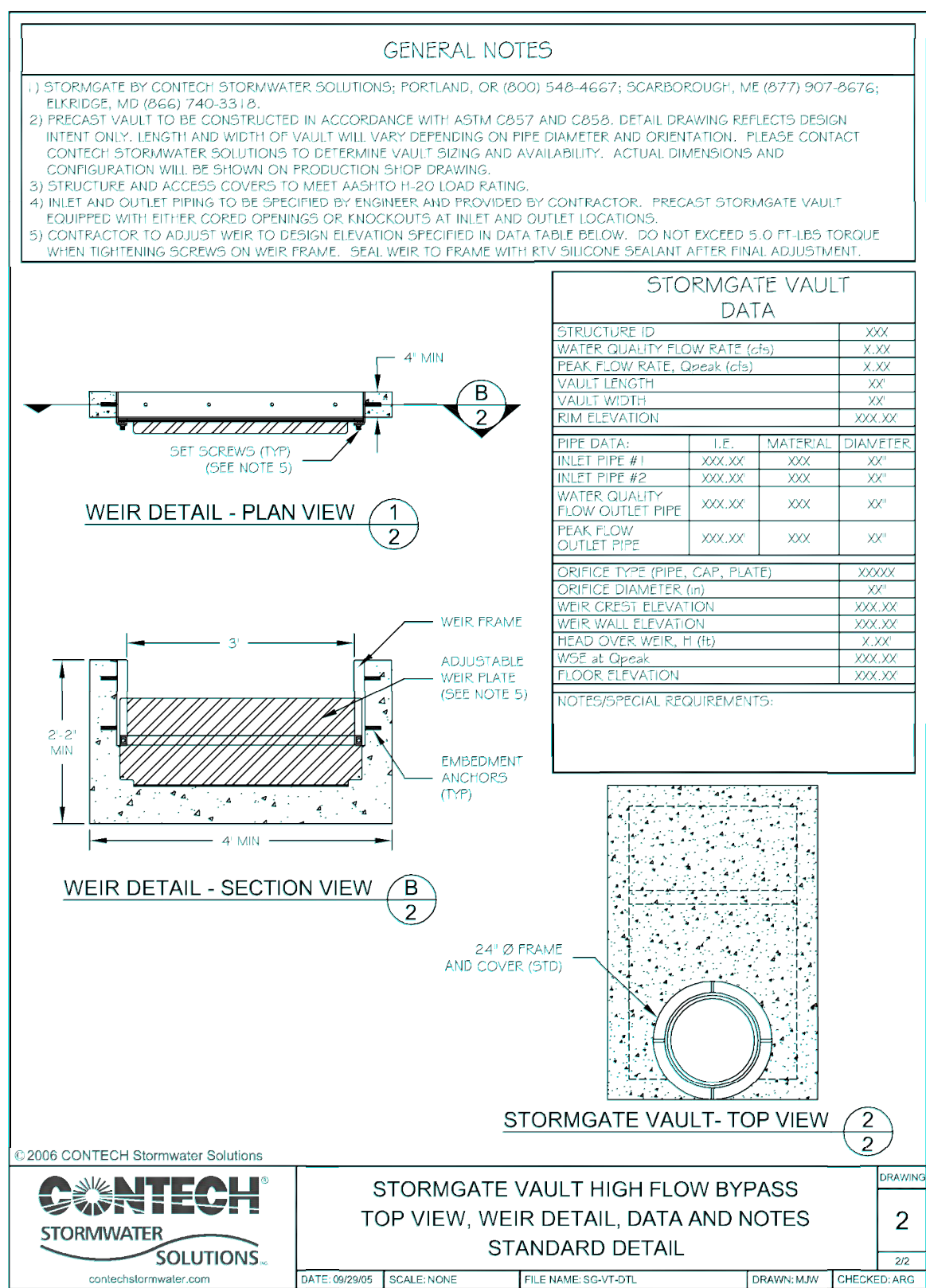
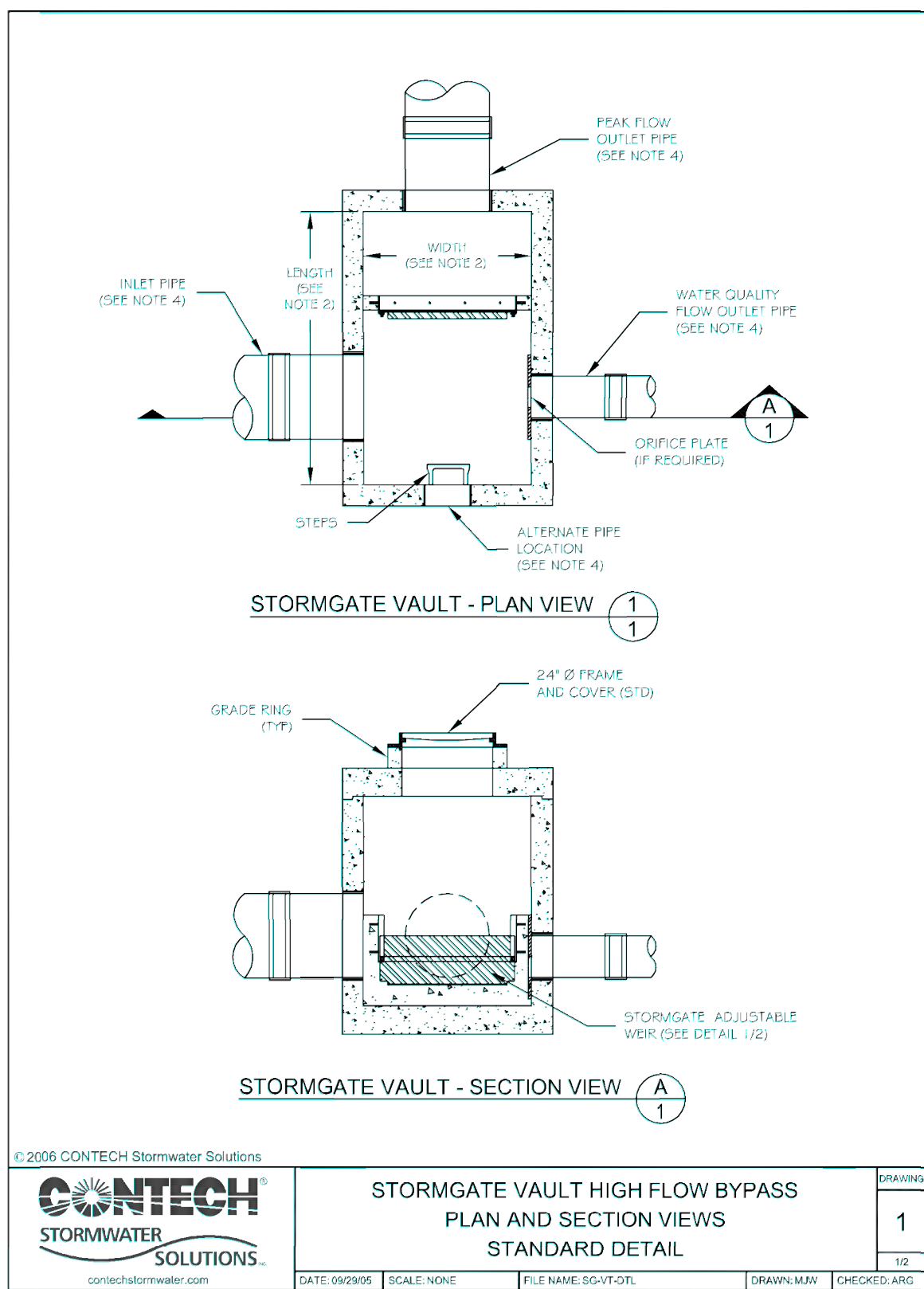
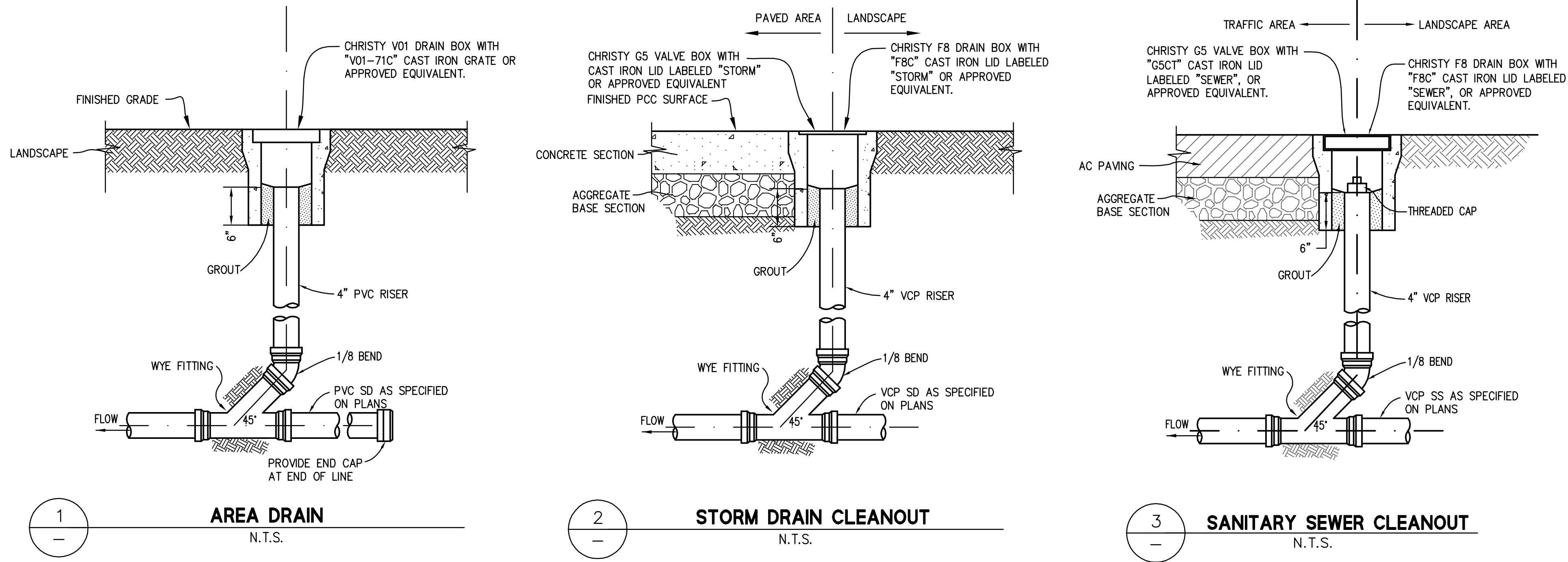
CONSTRUCTION DETAILS
C-6
SCALE NTS

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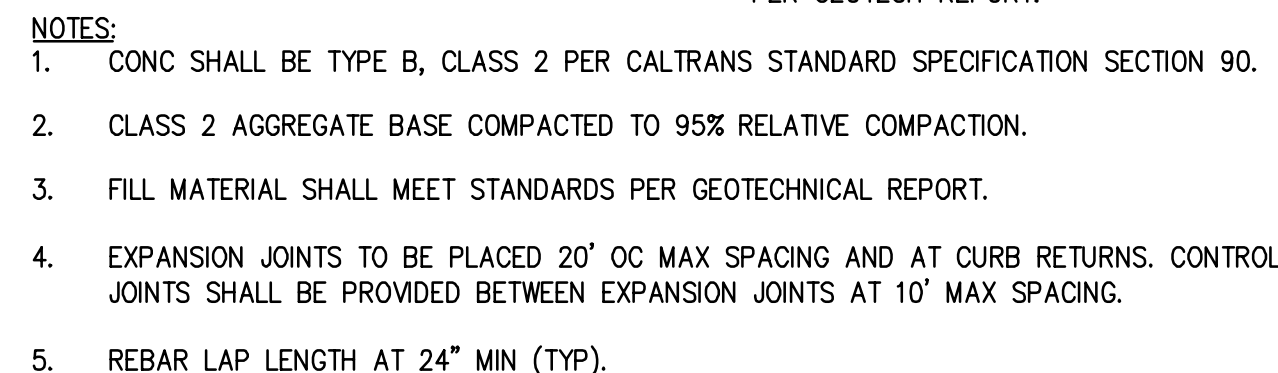
PLANNING DEPARTMENT SUBMITTAL

1027 PINE HOLLOW CT, CLAYTON
CLAYTON COMMUNITY CHURCH
02.09.2021

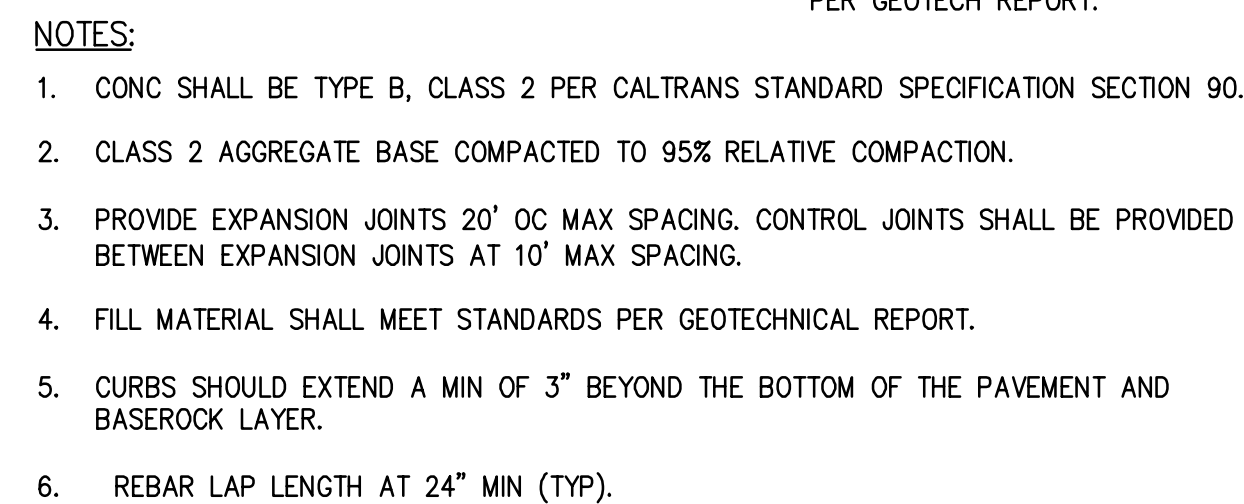
CONSTRUCTION DETAILS
C-7
SCALE NTS



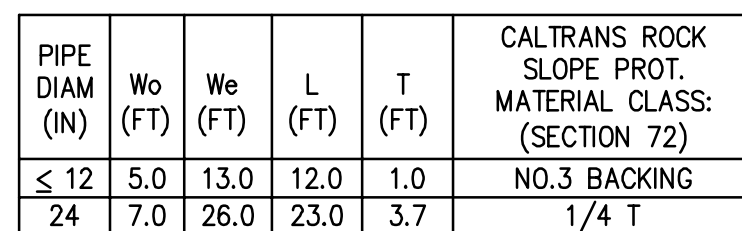
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N.T.S.



N.T.S.



NTS



TABLE A

S=PIPE SLOPE	L DISTANCE (MAX)
1.0	12'
0.67	14'
0.50	16'
0.40	18'
0.17-0.33	20'



N.T.S.

CONSTRUCTION DETAILS
C-8
SCALE NTS